Product Specification

M270HVN02.1

AU OPTRONICS CORPORATION

(**V**) Preliminary Specification
() Final Specification

Module	27.0" Color TFT-LCD
Model Name	M270HVN02.1

Customer	Date

Approved by

Note: This Specification is subject to change without notice.

Approved by	Date
Howard Lee	2012/10/19

Prepared by

Derec Yang   2012/10/19

Desktop Display Business Group /
AU Optronics Corporation

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Records of Revision

Version and Date	Page	Old description	New Description	Remark
0.1 2012/10/18		First Version		

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1   Handling Precautions

1) Since front polarizer is easily damaged, pay attention not to scratch it.

2) Be sure to turn off power supply when inserting or disconnecting from input connector.

3) Wipe off water drop immediately. Long contact with water may cause discoloration or spots.

4) When the panel surface is soiled, wipe it with absorbent cotton or other soft cloth.

5) Since the panel is made of glass, it may break or crack if dropped or bumped on hard surface.

6) Since CMOS LSI is used in this module, take care of static electricity and insure human earth when handling.

7) Do not open or modify the Module Assembly.

8) Do not press the reflector sheet at the back of the module to any directions.

9) In case if a Module has to be put back into the packing container slot after once it was taken out from the container, do not press the center of LED light bar edge. Instead, press at the far ends of the LED light bar edge softly. Otherwise the TFT Module may be damaged.

10) At the insertion or removal of the Signal Interface Connector, be sure not to rotate nor tilt the Interface Connector of the TFT Module.

11) After installation of the TFT Module into an enclosure, do not twist nor bend the TFT Module even momentary. At designing the enclosure, it should be taken into consideration that no bending/twisting forces are applied to the TFT Module from outside. Otherwise the TFT Module may be damaged.

12) Small amount of materials having no flammability grade is used in the LCD module. The LCD module should be supplied by power complied with requirements of Limited Power Source (IEC60950 or UL1950), or be applied exemption.

13) Avoid touching COF position while doing mechanical design.

14) While storing modules as spares for a long time, the following precautions are necessary:

   ➢ Store modules in a dark place. Do not expose them to sunlight or fluorescent light.

   ➢ Keep the temperature between 5°C and 35°C at normal humidity.

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2   General Description

This specification applies to the 27 inch-FHD color a-Si TFT-LCD Module M270HVN02.1 The display supports the FHD - 1920(H) x 1080(V) screen format and 16.7M colors (RGB 8-bit data). The light source of this TFT-LCD module is W-LED. All input signals are 2-channel LVDS interface and this module doesn't contain a driver for backlight.

2.1   Display Characteristics

The following items are characteristics summary on the table under 25°C condition:

Items	Unit	Specification
Screen Diagonal	[mm]	685.65(27.0")
Active Area	[mm]	597.6 (H) x 336.15 (V)
Pixels H x V		1920(x3) x 1080
Pixel Pitch	[um]	311.25 (per one triad) ×311.25
Pixel Arrangement		R.G.B. Vertical island
Display Mode		VA Mode, Normally Black
White Luminance (Center)	[cd/m^2]	300 cd/m^2 (Typ.)
Contrast Ratio		3000 (Typ.)
Optical Response Time	[msec]	12ms (Typ., on/off)
Nominal Input Voltage VDD	[Volt]	5 V (Typ)
Power Consumption (VDD line + LED line)	[Watt]	28.9 watt VDD line : PDD (typ), All white pattern at 60Hz = 5.1 W LED line : PBLU (typ) = 23.8W
Weight	[g]	**TBD** gram (Typ.)
Physical Size	[mm]	630.6(H)x368.2(V)x10.0(D) (Typ.)
Electrical Interface		Dual channel LVDS
Support Color		16.7M colors (RGB 8-bit)
Surface Treatment		Anti-Glare 3H

Temperature Range
    Operating
    Storage (Shipping)
	
	[°C]
	[°C]
		
		0 to +50
		-20 to +60

RoHS Compliance		RoHS Compliance
TCO Compliance		TCO 6.0 Compliance

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2.2   Optical Characteristics

The optical characteristics are measured under stable conditions at 25°C:

| Item	Unit	Conditions	Min.	Typ.	Max.	Note
Viewing Angle	[degree]	Horizontal (Right) CR = 10 (Left)	150	178	- -	2
		Vertical (Up) CR = 10 (Down)	150	178	- -	
Contrast ratio		Normal Direction	1800	3000	-	3
Response Time	[msec]	Raising Time (T_{rR})	-	7	-	4
		Falling Time (T_{rF})	-	5	-	
		Raising + Falling	-	12	-	
Color / Chromaticity Coordinates (CIE)		Red x	0.615	0.645	0.675	5
		Red y	0.300	0.330	0.360	
		Green x	0.285	0.315	0.345	
		Green y	0.590	0.620	0.650	
		Blue x	0.124	0.154	0.184	
		Blue y	0.034	0.064	0.094	
Color Coordinates (CIE) White		White x	0.283	0.313	0.343	
		White y	0.299	0.329	0.359	
Central Luminance	[cd/m^2]		240	300	-	6
Luminance Uniformity	[%]		75	80	-	7
Crosstalk (in 60Hz)	[%]				1.5	8
Flicker	dB				-20	9

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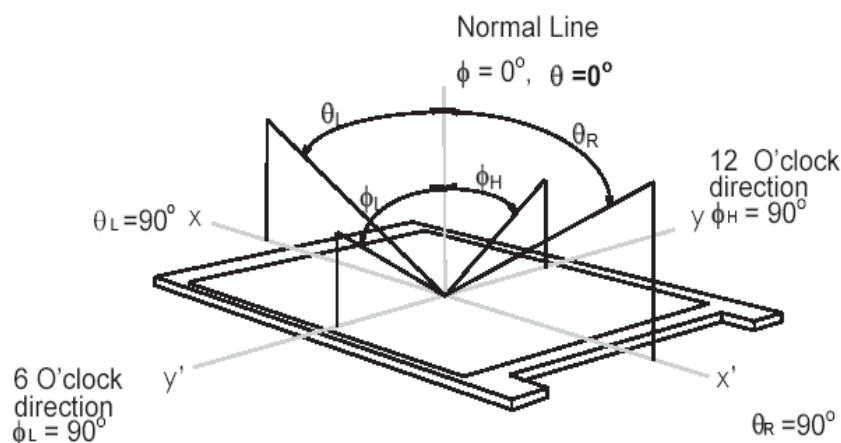
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Note 1: Measurement Method

The LCD module should be stabilized at given temperature for 30 minutes to avoid abrupt temperature change during measuring (at surface 35°C). In order to stabilize the luminance, the measurement should be executed after lighting Backlight for 30 minutes in a stable, windless and dark room.

Photo Detector

Measured Distance

LCD Panel

TFT-LCD Module

Center of the screen
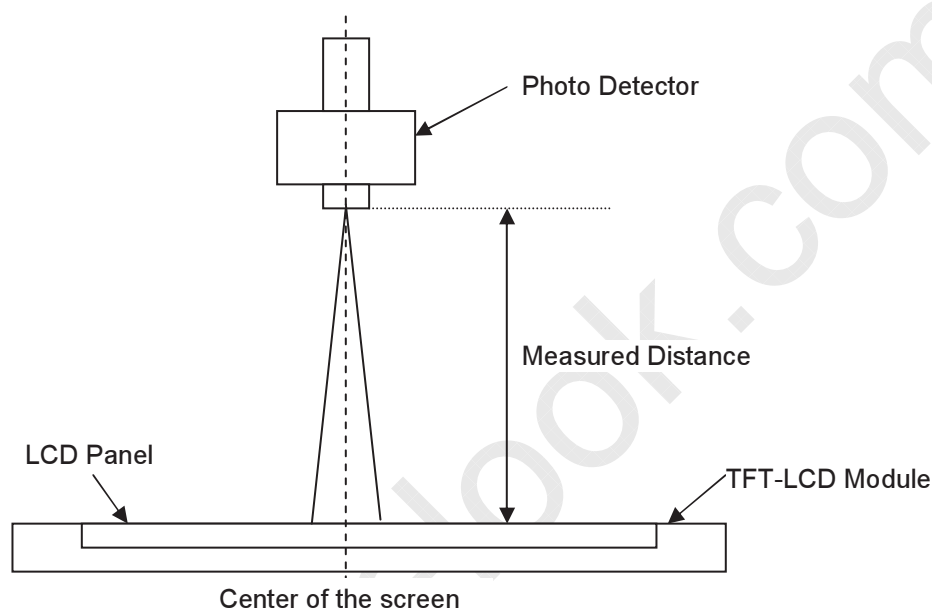
*Note 2:* Definition of Viewing Angle measured by ELDIM (EZContrast 88)

Viewing angle is the measurement of contrast ratio $\geqq 10$, at the screen center, over a 180° horizontal and 180° vertical range (off-normal viewing angles). The 180° viewing angle range is broken down as follows; 90° (θ) horizontal left and right and 90° (Φ) vertical, high (up) and low (down). The measurement direction is typically perpendicular to the display surface with the screen rotated about its center to develop the desired measurement viewing angle.

Normal Line

$\phi = 0°, \quad \theta = 0°$

θ_L

θ_R

ϕ_H

12 O'clock direction
y $\phi_H = 90°$

$\theta_L = 90°$ x

ϕ_I

6 O'clock direction
$\phi_L = 90°$

y'

x'

$\theta_R = 90°$

Note 3: Contrast Ratio measured by TOPCON SR-3

Note 4: Definition of Response time measured by Westar TRD-100A

The output signals of photo detector are measured when the input signals are changed from "Full Black" to "Full White" (rising time, T_{rR}), and from "Full White" to "Full Black" (falling time, T_{rF}), respectively. The response time is interval between the 10% and 90% (1 frame at 60 Hz) of amplitudes.
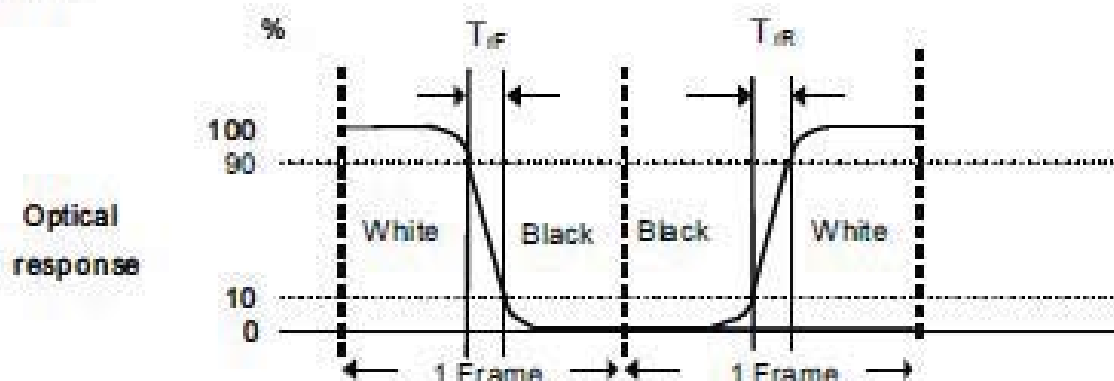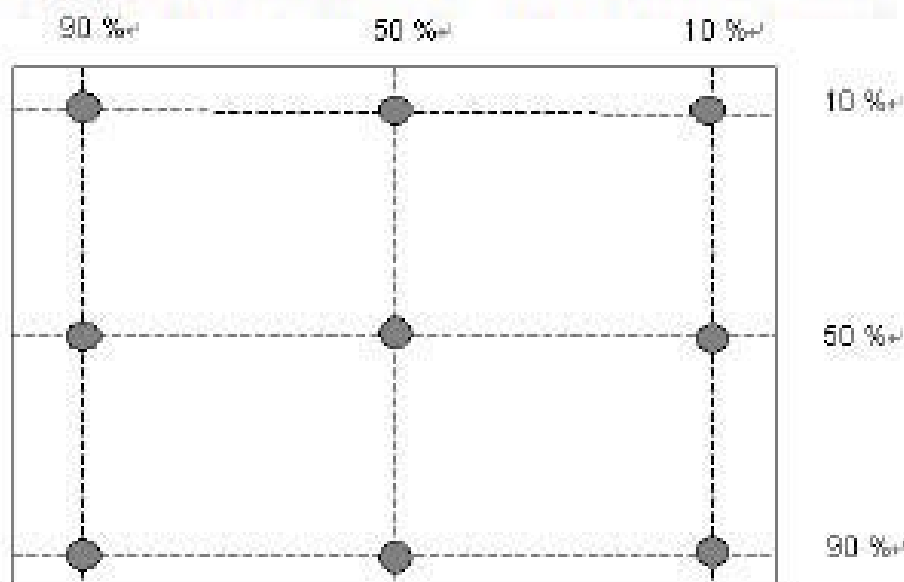

$T_{rR} + T_{rF} = 12$ msec (typ.).

Note 5: Color Chromaticity and Coordinates (CIE) measured by TOPCON SR-3

Note 6: Central Luminance measured by TOPCON SR-3

Note 7: Luminance Uniformity of these 9 points defined as below and measured by TOPCON SR-3

$$Uniformity = \frac{Minimum\ Luminance\ in\ 9\ points\ (1-9)}{Maximum\ Luminance\ in\ 9\ Points\ (1-9)}$$

Note 8: Crosstalk defined as below and measured by TOPCON SR-3

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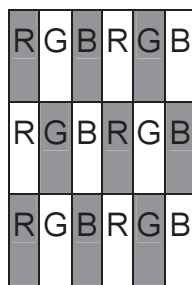AU OPTRONICS CORPORATION

CT = | YB – YA | / YA × 100 (%)

Where

YA = Luminance of measured location without gray level 0 pattern (cd/m2)

YB = Luminance of measured location with gray level 0 pattern (cd/m2)

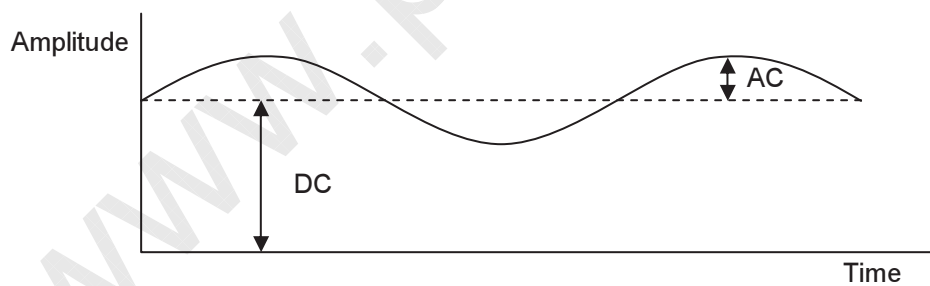*Note 9:* Test Pattern Sub-checker Pattern measured by TOPCON SR-3

Gray Level = L127

Gray Level = L0

Method: Record dBV & DC value with TRD-100

$$\text{Flicker (dB)} = 20\log\frac{AC\ \ Level(at\ 30\,Hz)}{DC\ \ Level}$$
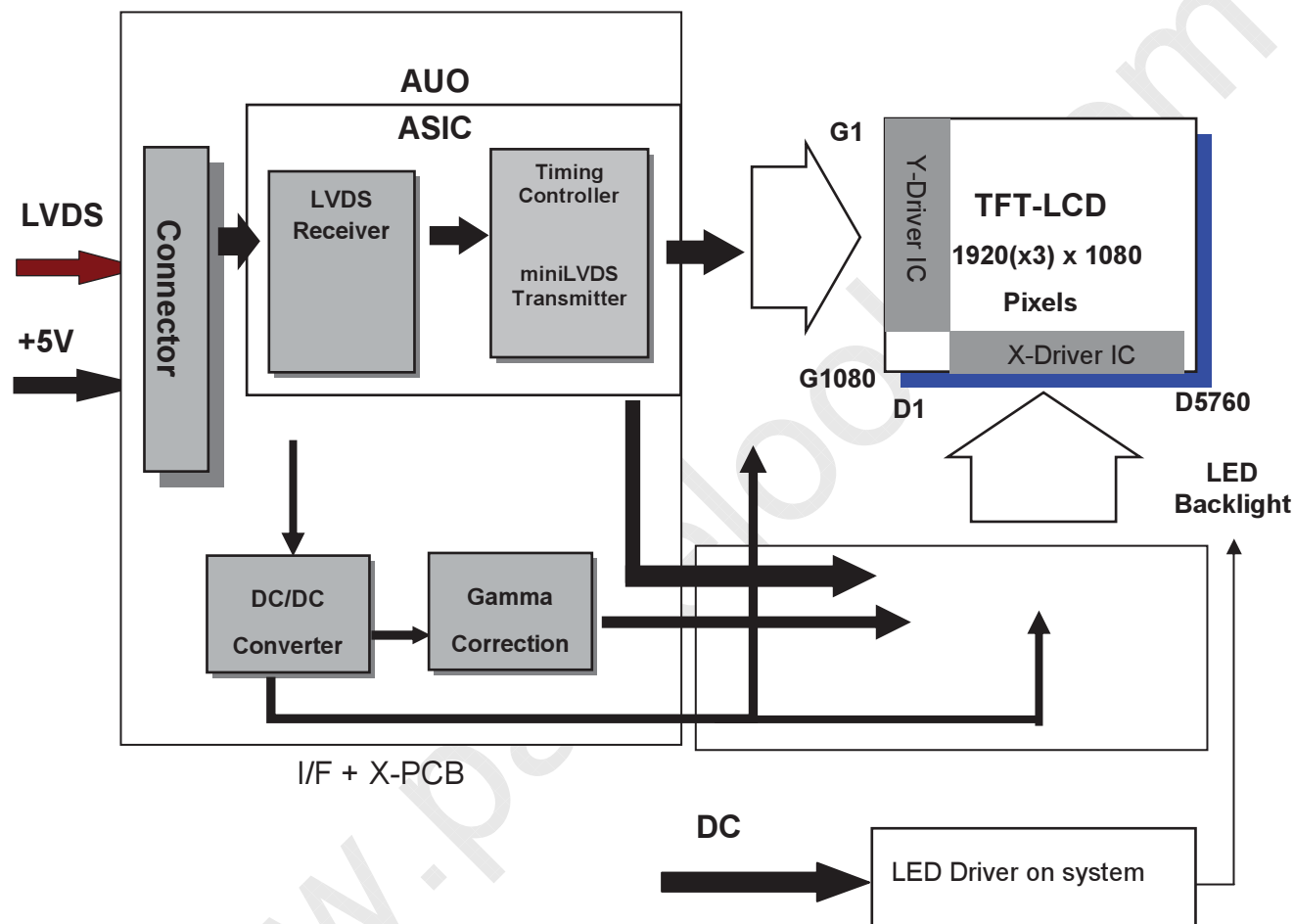
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3   Functional Block Diagram

The following diagram shows the functional block of the 27.0 inch Color TFT-LCD Module:

AUO

ASIC

LVDS Receiver	**Timing Controller** **miniLVDS Transmitter**

LVDS

+5V

Connector

G1

Y-Driver IC

TFT-LCD

1920(x3) x 1080

Pixels

X-Driver IC

G1080

D1   **D5760**

LED Backlight

DC/DC Converter   **Gamma Correction**

I/F + X-PCB

DC

LED Driver on system

I/F PCB Interface:
MSCKT2407P30HB
AL230F-A0G1D-P

Mating Type:

FI-X30HL(Locked Type)

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4   Absolute Maximum Ratings

Absolute maximum ratings of the module are listed as follows:

4.1   TFT LCD Module

Item	Symbol	Min	Max	Unit	Conditions
Logic/LCD Drive	VDD	-0.3	6.0	[Volt]	*Note 1, 2*

4.2   Backlight Unit

Item	Symbol	Min	Max	Unit	Conditions
LED Forward Current	IRLED1	0	150	[mA]	*Note 1,2,5* 100% duty
	IRLED2				
	IRLED3				
	IRLED4				
LED Pulse Forward Current	IPLED1	-	210	[mA]	*Note 1,2,5* 10% duty @100Hz
	IPLED2				
	IPLED3				
	IPLED4				
LED forward Voltage variation (per string variation)	△Vf	-	3	[Volt]	*Note 1,2*

4.3   Absolute Ratings of Environment

Item	Symbol	Min.	Max.	Unit	Conditions
Operating Temperature	TOP	0	+50	[°C]	*Note 3*
Glass Surface Temperature (Operation)	TGS	0	+65	[°C]	*Note3 Note4*
Operation Humidity	HOP	5	90	[%RH]	*Note 3*
Storage Temperature	TST	-20	+60	[°C]	
Storage Humidity	HST	5	90	[%RH]	

Note 1: With in Ta (25 °C)

Note 2: Permanent damage to the device may occur if exceeding maximum values

Note 3: Temperature and relative humidity range are shown as the below figure.

       1. 90% RH Max (Ta ≦39°C)

       2. Max wet-bulb temperature at 39°C or less. (Ta ≦39°C)

       3. No condensation
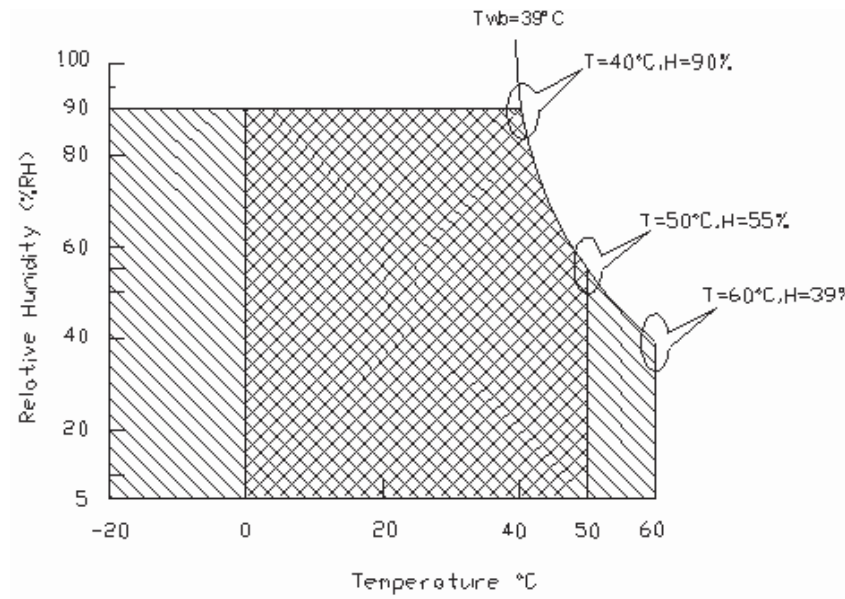
Note 4: Function Judged only

Note 5: IRLED1,2,3,4 and IPLED1,2,3,4 define as per strings LED current.

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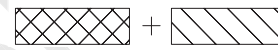## AU OPTRONICS CORPORATION

Operating Range   Storage Range

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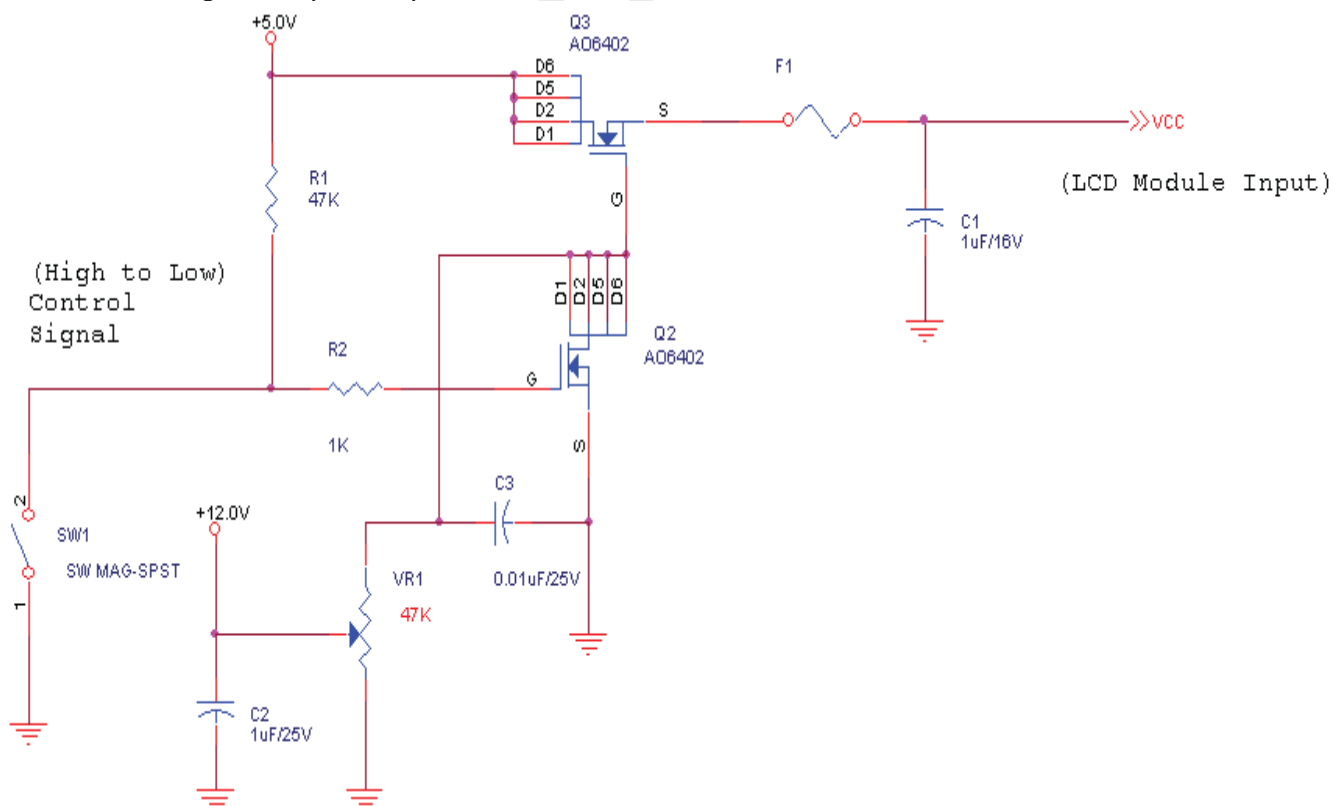# 5   Electrical Characteristics

5.1   TFT LCD Module

5.1.1   Power Specification

Input power specifications are listed as follows:

Symbol	Description	Min	Typ.	Max	Unit	Conditions
VDD	Logic/LCD Drive Voltage	4.5	5.0	5.5	[Volt]	+/-10%
IDD1	Input Current	-	1.02	1.22	[A]	VDD= 5.0V, All white Pattern at 60 Hz
		-	1.21	1.45	[A]	VDD= 5.0V, All white Pattern at 75 Hz
PDD1	VDD Power	-	5.1	6.12	[Watt]	VDD= 5.0V, All white Pattern at 60 Hz
		-	6.05	7.26	[Watt]	VDD= 5.0V, All white Pattern at 75 Hz
IRush	Inrush Current	-	-	3	[A]	*Note 1*
VDDrp	Allowable Logic/LCD Drive Ripple Voltage	-	-	500	[mV] p-p	VDD= 5.0V, All white Pattern at 75 Hz

Note 1: Measurement Conditions:

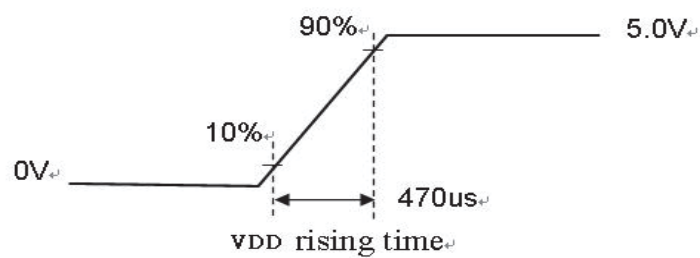The duration of rising time of power input is 470 us.

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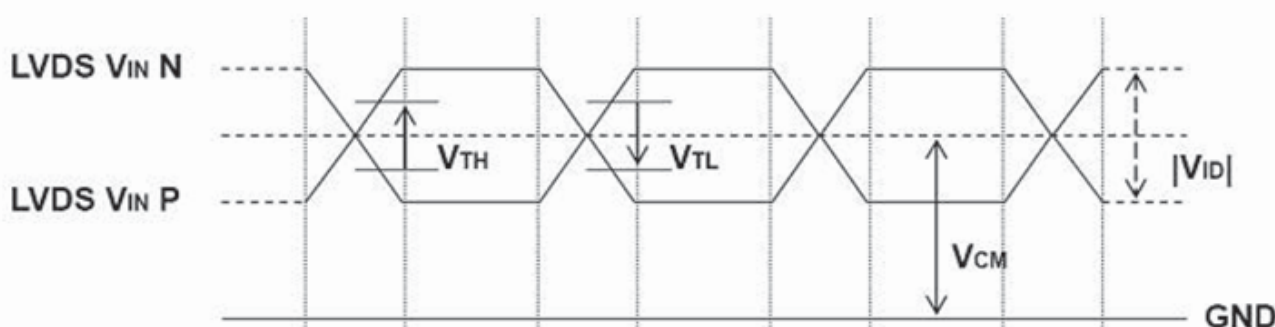**Product Specification**   M270HVN02.1

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5.1.2 Signal Electrical Characteristics

(1)   DC Characteristics of each signal are as following:

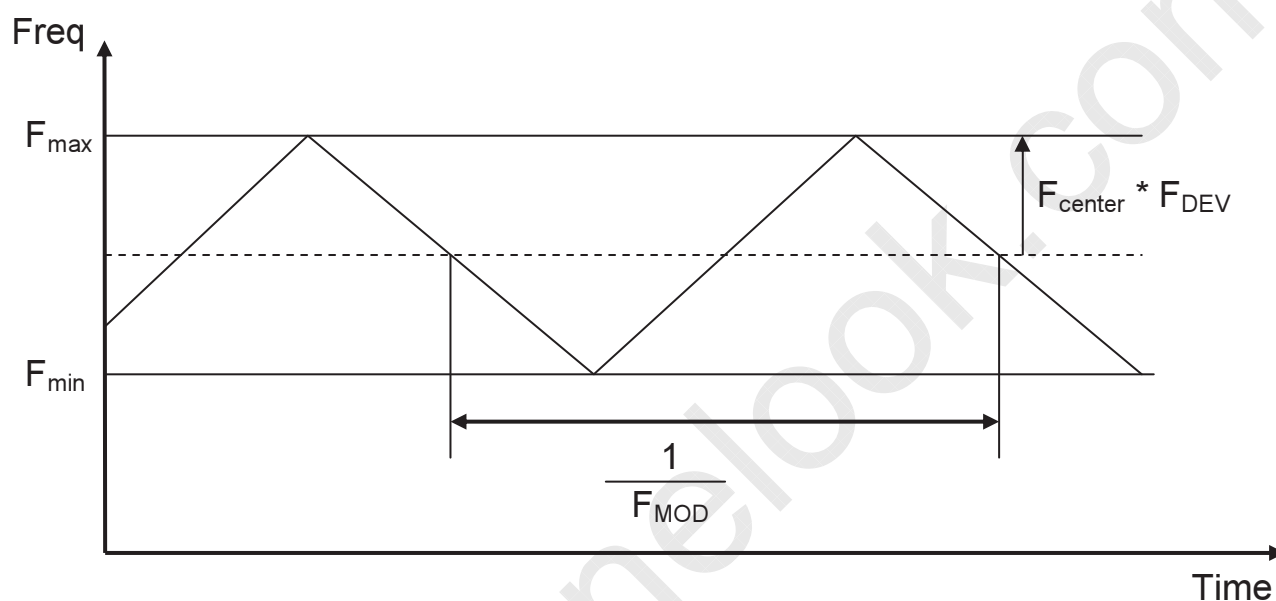| Symbol	Description	Min	Typ	Max	Units	Conditions
V_{TH}	Differential Input High Threshold	-	-	+100	[mV]	V_{CM} = 1.2V *Note 1*
V_{TL}	Differential Input Low Threshold	-100	-	-	[mV]	V_{CM} = 1.2V *Note 1*
$\lvert V_{ID} \rvert$	Input Differential Voltage	100	-	600	[mV]	*Note 1*
V_{CM}	Differential Input Common Mode Voltage	+1.0	+1.2	+1.5	[V]	V_{TH}-V_{TL} = 200MV (max) *Note 1*

Note 1: LVDS Signal Waveform
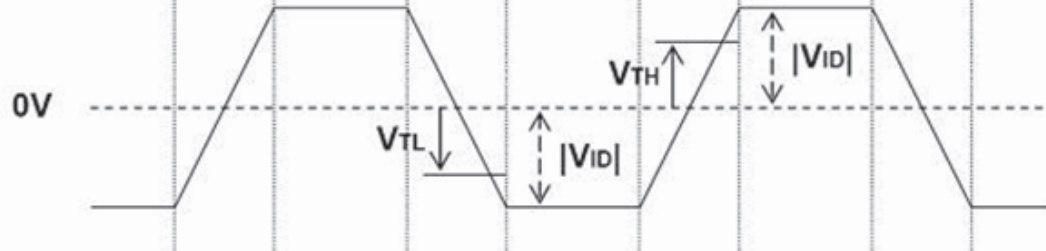
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(2) AC Characteristics

Symbol	Description	Min	Max	Units	Conditions
F_{DEV}	Maximum deviation of input clock frequency during SSC	-	± 3	%	
F_{MOD}	Maximum modulation frequency of input clock during SSC	-	200	KHz	

< Spread Spectrum>

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5.2 Backlight Unit

Parameter guideline for LED driving is under stable conditions at 25 °C (Room Temperature):

Symbol	Description	Min.	Typ.	Max.	Unit	Note
IRLED1	LED Forward Current	-	120	126	[mA]	Note 1
IRLED2						
IRLED3						
IRLED4						
VLB	Light Bar Operation Voltage (for reference)	44.25	49.5	54	[Volt]	Note 2
PBLU	BLU Power Consumption (for reference)	-	23.8	27.2	[Watt]	Note 3
LTLED	LED Life Time (Typical)	30,000	-	-	[Hour]	Note 4

Each module consists of 60 pcs LED (4 strings x 15 pcs / string)

Note 1: The specified current is 100% duty of LED chip input current, IRLED1,2,3,4 define as per strings LED current.

*Note 2:* The value showed is one string operation voltage.

Note 3: PBLU = VLED *(IRLED1+IRLED2+IRLED3+IRLED4)

Note 4: Definition of life time: Brightness becomes to 50% of its original value. The minimum life time of LED unit is on the condition of IRLED = 120mA and 25±2°C (Room Temperature).
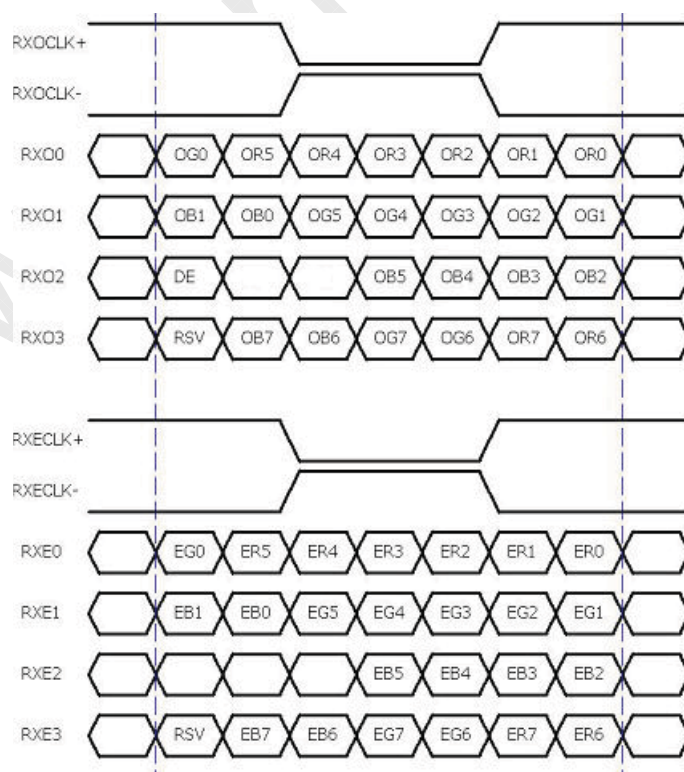
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6   Signal Characteristics

6.1   Pixel Format Definition

Following figure shows the relationship between the input signals and LCD pixel format.
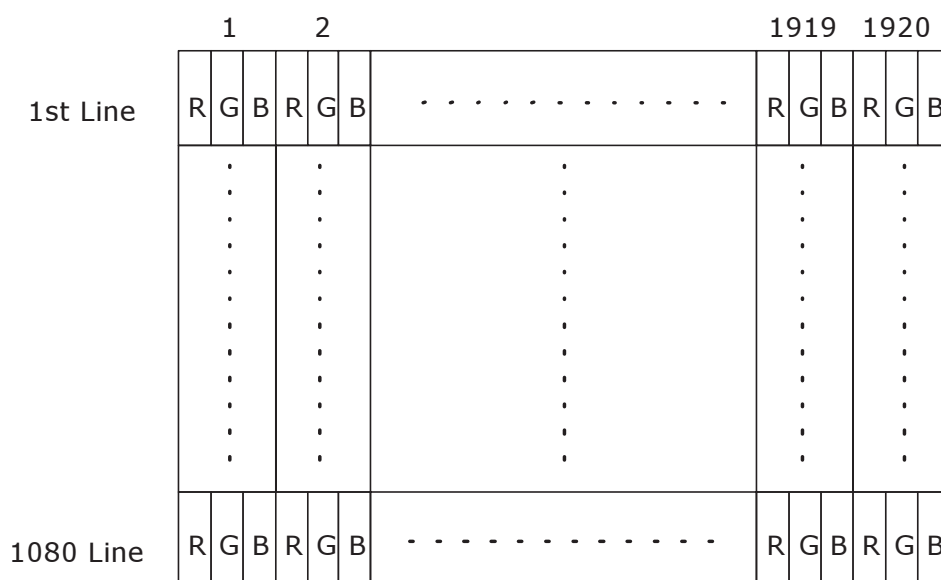
6.2   Input Data Format Definition

Note 1:   R/G/B data 7:MSB, R/G/B data 0:LSB   O = "Odd Pixel Data"   E = "Even Pixel Data"

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6.3　Signal Description

| PIN #	SIGNAL NAME	DESCRIPTION
1	RxOIN0-	Negative LVDS differential data input (Odd data)
2	RxOIN0+	Positive LVDS differential data input (Odd data)
3	RxOIN1-	Negative LVDS differential data input (Odd data)
4	RxOIN1+	Positive LVDS differential data input (Odd data)
5	RxOIN2-	Negative LVDS differential data input (Odd data, DSPTMG)
6	RxOIN2+	Positive LVDS differential data input (Odd data, DSPTMG)
7	GND	Power Ground
8	RxOCLK-	Negative LVDS differential clock input (Odd clock)
9	RxOCLK+	Positive LVDS differential clock input (Odd clock)
10	RxOIN3-	Negative LVDS differential data input (Odd data)
11	RxOIN3+	Positive LVDS differential data input (Odd data)
12	RxEIN0-	Negative LVDS differential data input (Even data)
13	RxEIN0+	LVDS differential data input (Even data)
14	GND	Power Ground
15	RxEIN1-	Negative LVDS differential data input (Even data)
16	RxEIN1+	Positive LVDS differential data input (Even data)
17	GND	Power Ground
18	RxEIN2-	Negative LVDS differential data input (Even data)
19	RxEIN2+	Positive LVDS differential data input (Even data)
20	RxECLK-	Negative LVDS differential clock input (Even clock)
21	RxECLK+	Positive LVDS differential clock input (Even clock)
22	RxEIN3-	Negative LVDS differential data input (Even data)
23	RxEIN3+	Positive LVDS differential data input (Even data)
24	GND	Power Ground
25	NC	No connection (for AUO test only. Do not connect)
26	NC	No connection (for AUO test only. Do not connect)
27	NC	No connection (for AUO test only. Do not connect)
28	VDD	Power +5V
29	VDD	Power +5V
30	VDD	Power +5V

Note 1: Input signals of odd and even clock shall be the same timing.

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LVDS C/N PIN 1   L/B C/N PIN 1
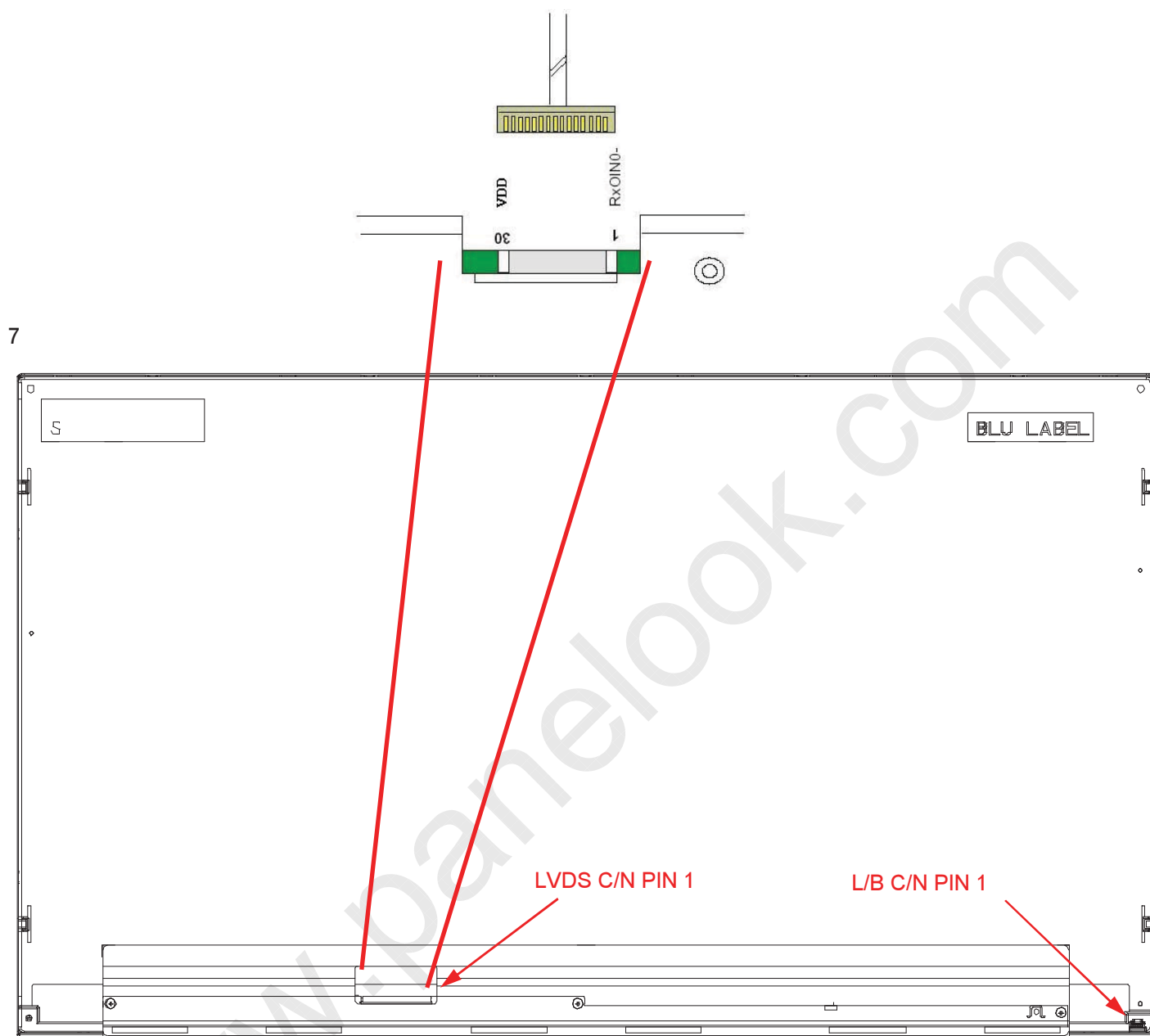
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6.4 Timing Characteristics

The input signal timing specifications are shown as the following table

Signal	Item	Symbol	Min	Typ	Max	Unit
Vertical Section	Period	Tv	1092	1130	1793	Th
	Active	Tdisp(v)	1080	1080	1080	Th
	Blanking	Tbp(v)+Tfp(v)+PWvs	12	50	713	Th
Horizontal Section	Period	Th	1004	1050	1100	Tclk
	Active	Tdisp(h)	960	960	960	Tclk
	Blanking	Tbp(h)+Tfp(h)+PWhs	44	90	140	Tclk
Clock	Period	Tclk	11.1	14.0	18.2	ns
	Frequency	Freq	54.8	71.2	90.0	MHz
Frame rate	Frame rate	VFreq	50	60	76	Hz
Hsync Frequency	Hsync Frequency	HFreq	55	68	90	KHz

Note 1: DE mode only

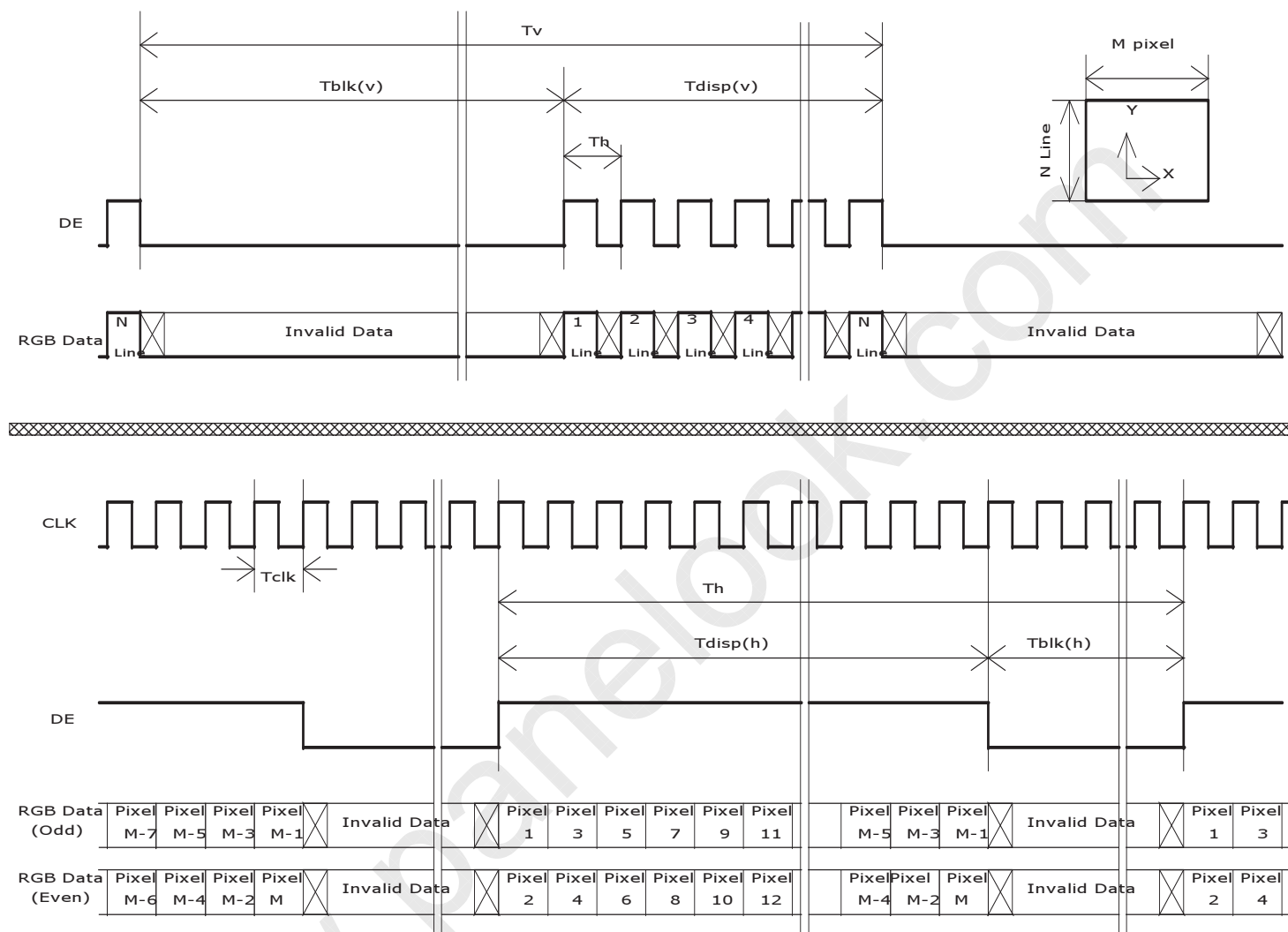**Product Specification**   M270HVN02.1

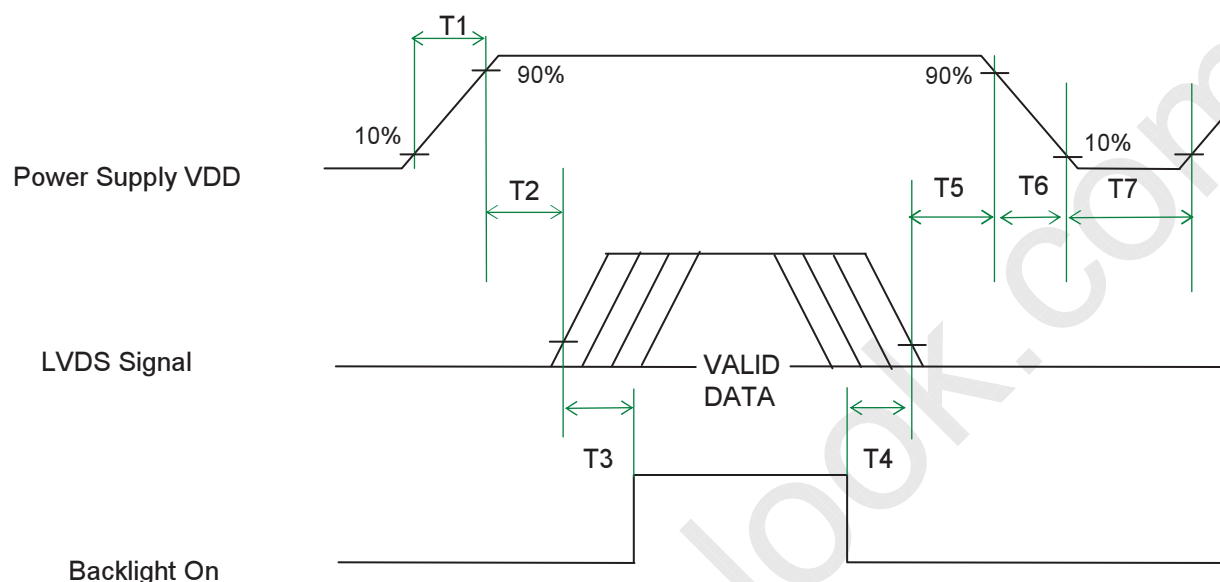AU OPTRONICS CORPORATION

6.5   Timing Diagram

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6.6 Power ON/OFF Sequence

VDD power and lamp on/off sequence are as follows. Interface signals are also shown in the chart. Signals from any system shall be Hi-Z state when VDD is off.

Power Sequence Timing

Parameter	Value			Unit
	Min.	Typ.	Max.	
T1	0.5	-	10	[ms]
T2	0	-	50	[ms]
T3	500	-	-	[ms]
T4	100	-	-	[ms]
T5	0	-	50	[ms] *Note1,2*
T6	5	-	100	[ms] *Note1,2*
T7	1000	-	-	[ms]

Note1 : Recommend setting T5 = 0ms to avoid electronic noise when VDD is off.

Note2 : During T5 and T6 period , please keep the level of input LVDS signals with Hi-Z state.

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7　Connector and Pin Assignment

Physical interface is described as for the connector on module. These connectors are capable of accommodating the following signals and will be following components.

7.1　TFT LCD Module

Connector Name / Designation	Interface Connector / Interface Card
Manufacturer	STM P-TWO
Type Part Number	MSCKT2407P30HB AL230F-A0G1D-P
Mating Housing Part Number	FI-X30HL (Locked Type)

7.1.1　Pin Assignment

Pin#	Signal Name	Pin#	Signal Name
1	RxOIN0-	2	RxOIN0+
3	RxOIN1-	4	RxOIN1+
5	RxOIN2-	6	RxOIN2+
7	GND	8	RxOCLKIN-
9	RxOCLKIN+	10	RxOIN3-
11	RxOIN3+	12	RxEIN0-
13	RxEIN0+	14	GND
15	RxEIN1-	16	RxEIN1+
17	GND	18	RxEIN2-
19	RxEIN2+	20	RxECLKIN-
21	RxECLKIN+	22	RxEIN3-
23	RxEIN3+	24	GND
25	NC (for AUO test only. Do not connect)	26	NC (for AUO test only. Do not connect)
27	NC (for AUO test only. Do not connect)	28	VDD
29	VDD	30	VDD

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## 7.2 LED Connector on Backlight Unit

This connector is mounted on LED light bar.

Connector Name / Designation	Light Bar Connector
Manufacturer	E&T(ENTERY)
Type Part Number	3707K-S06N-21R
Mating Housing Part Number	H112K-P06N-13B (Locked Type)

7.2.1 LED Pin assignment

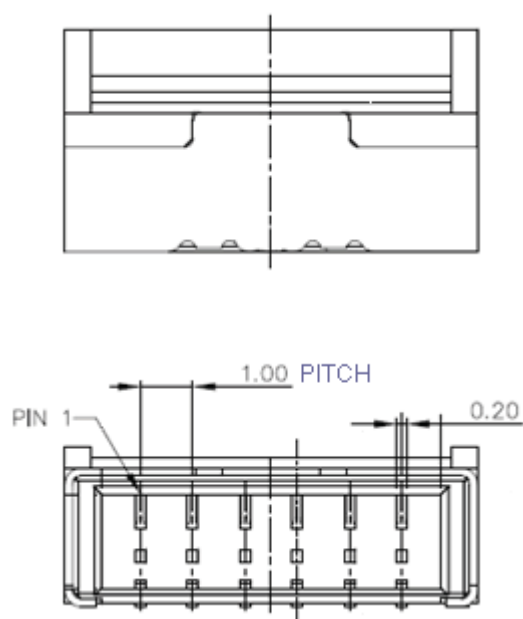| Pin#	Signal Name
1	IRLED (current out)
2	IRLED (current out)
3	VLED (voltage in)
4	VLED (voltage in)
5	IRLED (current out)
6	IRLED (current out)
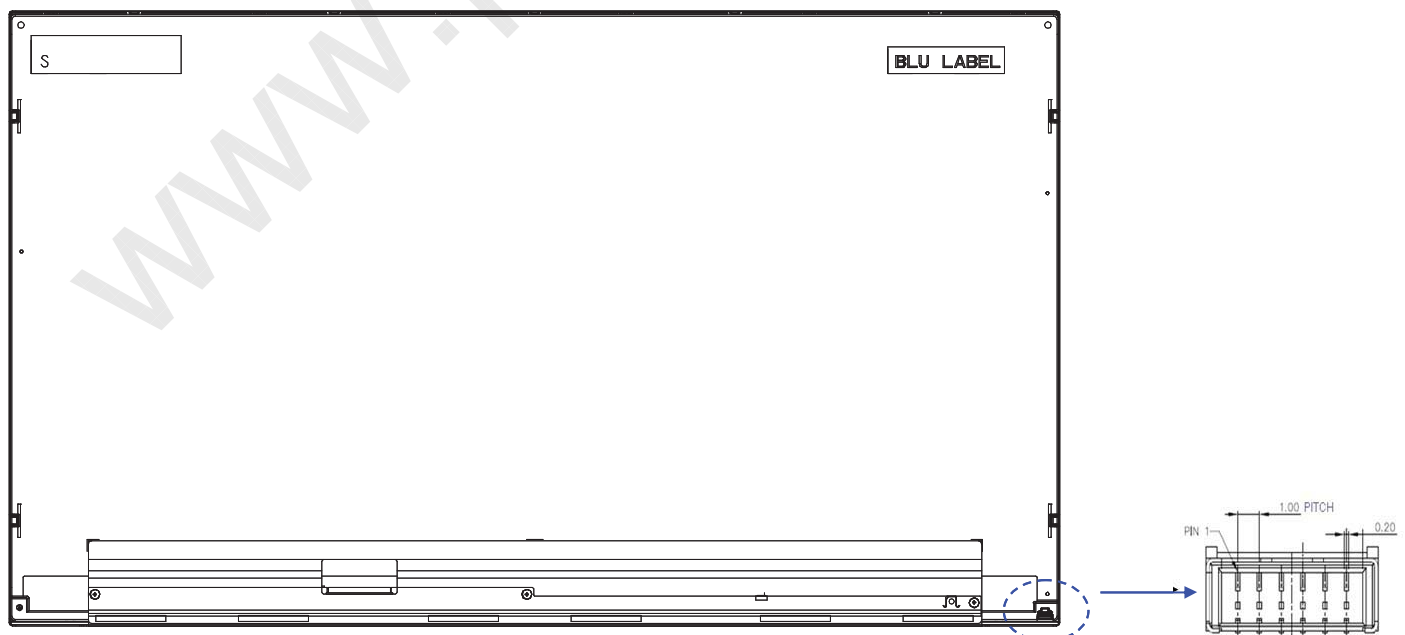
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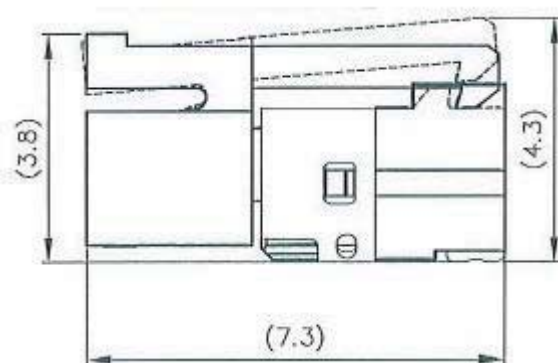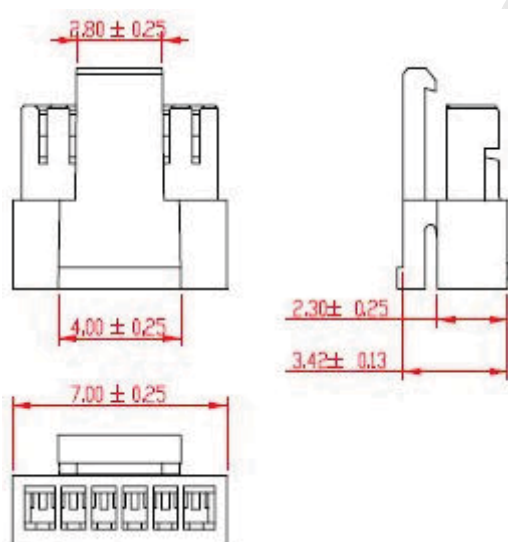AU OPTRONICS CORPORATION

7.2.2 LED Connector Dimension

$$H \times V \times D = 13.9 \times 3.00 \times 4.25, Pitch = 1.0 (unit = mm)$$

7.2.3 LED Mating housing dimension

Product Specification　　　M270HVN02.1

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8　Reliability Test

Environment test conditions are listed as following table.

Items	Required Condition	Note
Temperature Humidity Bias (THB)	Ta= 50°C, 80%RH, 300 hours	
High Temperature Operation (HTO)	Ta= 50°C, 50%RH, 300 hours	
Low Temperature Operation (LTO)	Ta= 0°C, 300 hours	
High Temperature Storage (HTS)	Ta= 60°C, 300 hours	
Low Temperature Storage (LTS)	Ta= -20°C, 300 hours	
Vibration Test (Non-operation)	Acceleration: 1.5 Grms Wave: Random Frequency: 10 - 200 Hz Duration: 30 Minutes each Axis (X, Y, Z)	
Shock Test (Non-operation)	Acceleration: 50 G Wave: Half-sine Active Time: 20 ms Direction: ±X, ±Y, ±Z (one time for each Axis)	
Drop Test	Height: 46 cm, package test	
Thermal Shock Test (TST)	-20°C/30min, 60°C/30min, 100 cycles	*Note 1*
On/Off Test	On/10sec, Off/10sec, 30,000 cycles	
ESD (Electro Static Discharge)	Contact Discharge: ± 15KV, 150pF(330Ω) 1sec, 15 points, 25 times/ point	*Note 2*
	Air Discharge: ± 15KV, 150pF(330Ω) 1sec 15 points, 25 times/ point	
Altitude Test	Operation: 18,000 ft Non-Operation: 40,000 ft	*Note 3*

Note 1: The TFT-LCD module will not sustain damage after being subjected to 100 cycles of rapid temperature change. A cycle of rapid temperature change consists of varying the temperature from -20°C to 60°C, and back again. Power is not applied during the test. After temperature cycling, the unit is placed in normal room ambient for at least 4 hours before power on.

Note 2: EN61000-4-2, ESD class B: Certain performance degradation allowed:

> ➢　No data lost
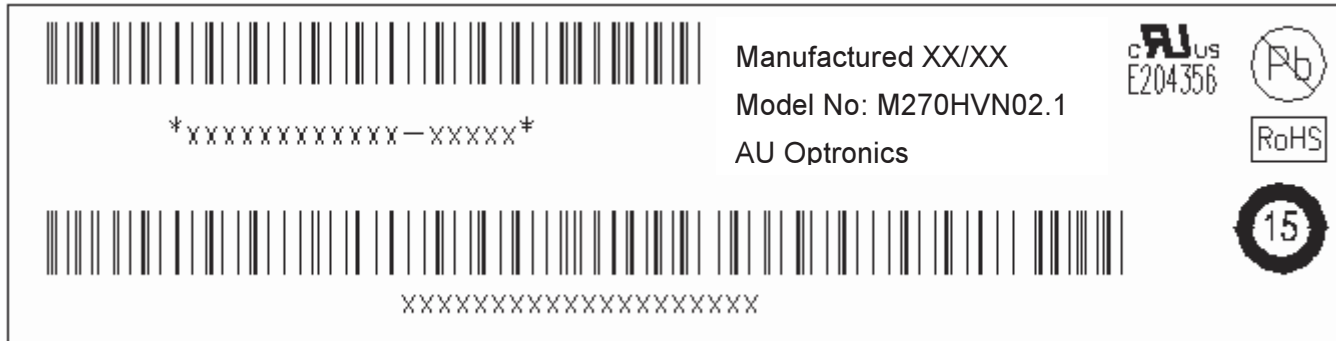> ➢　Self-recoverable
> ➢　No hardware failures

Product Specification   M270HVN02.1

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9   Shipping Label

The label on the panel is shown as below:

Manufactured XX/XX
Model No: M270HVN02.1
AU Optronics

Note 1: For Pb Free products, AUO will add   for identification.

Note 2: For RoHS compatible products, AUO will add   for identification.

Note 3: For China RoHS compatible products, AUO will add   for identification.

Note 4: The Green Mark will be presented only when the green documents have been ready by AUO Internal Green Team.
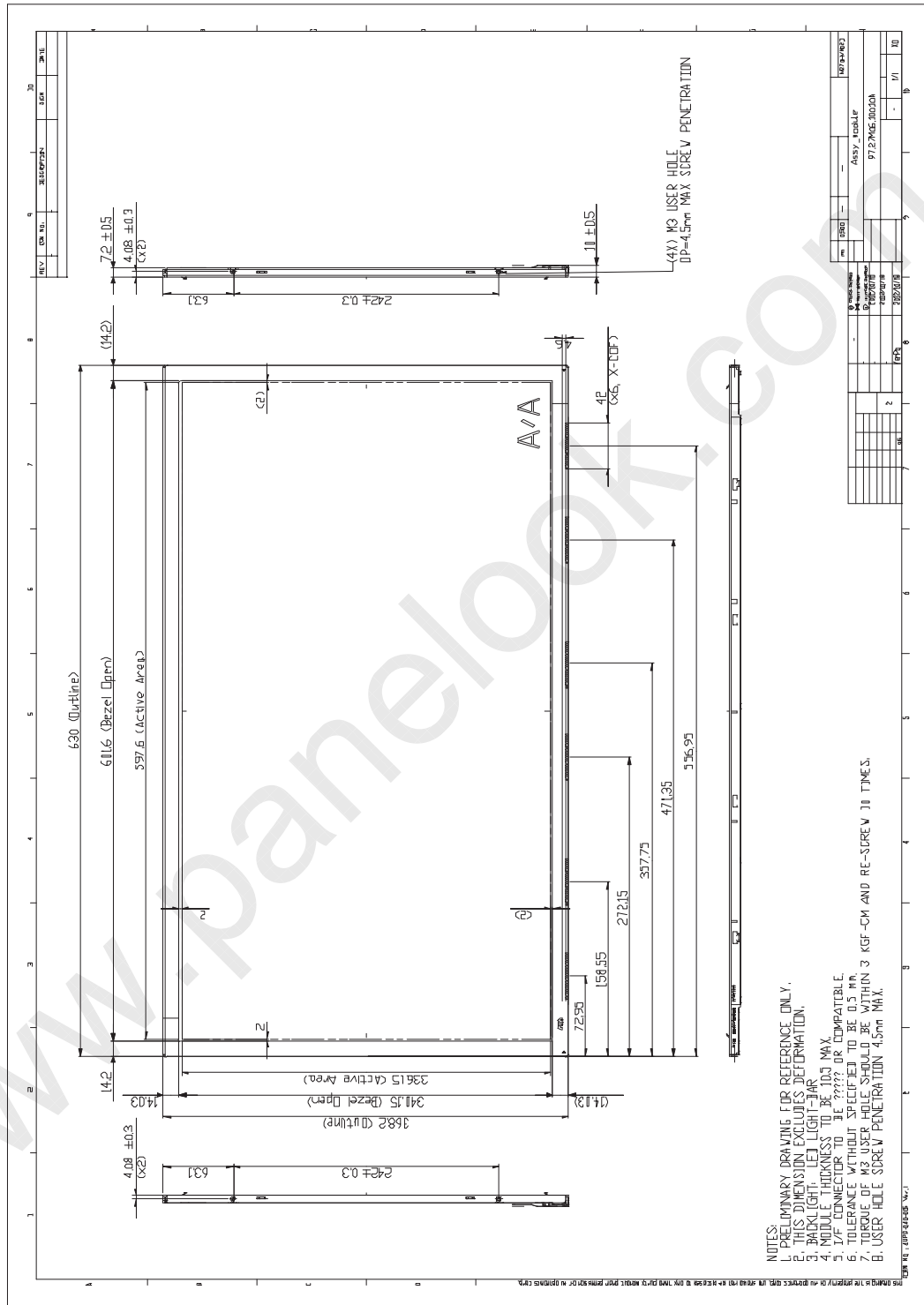
Product Specification　　　M270HVN02.1

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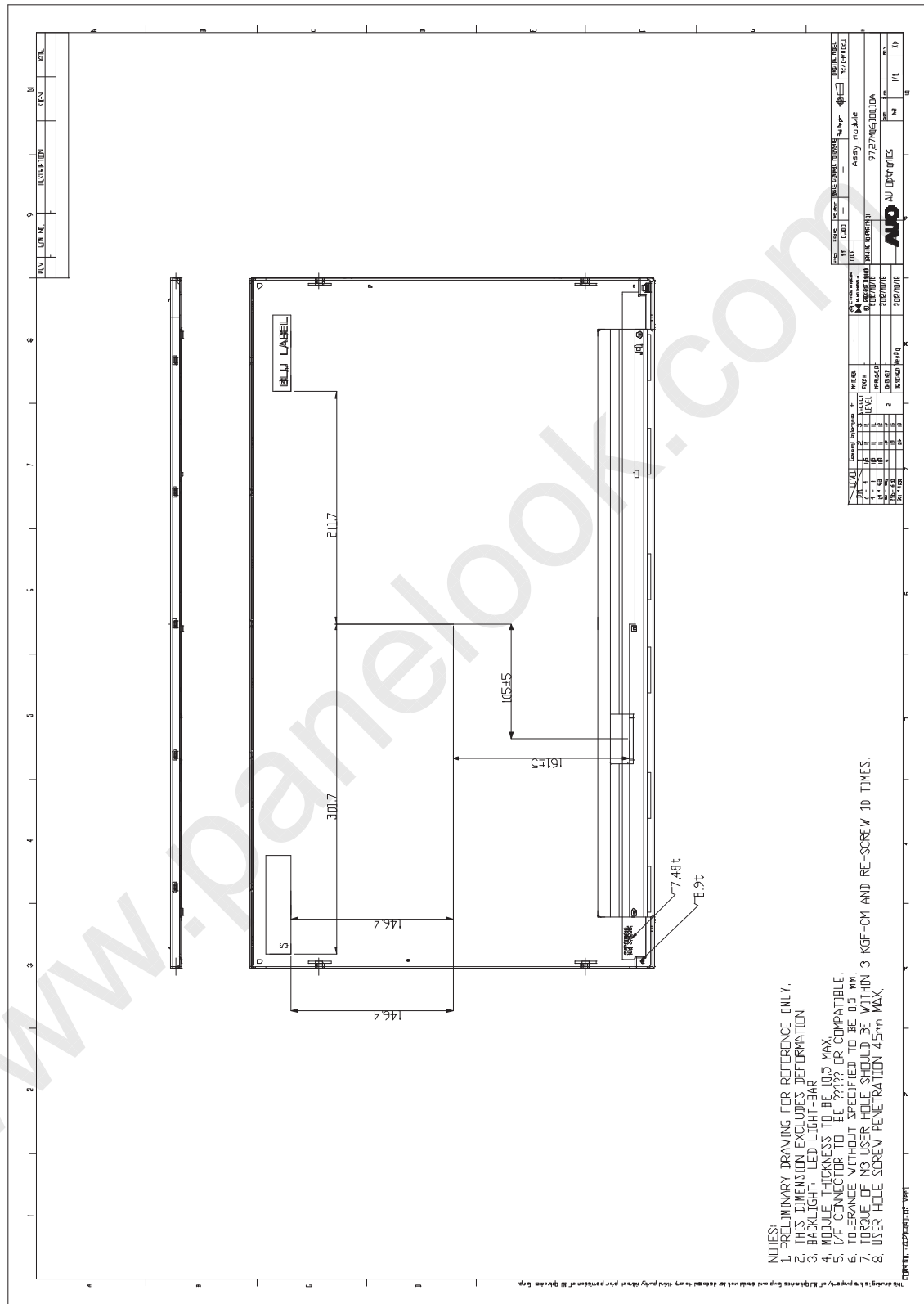10 Mechanical Characteristics

Front Face

Product Specification
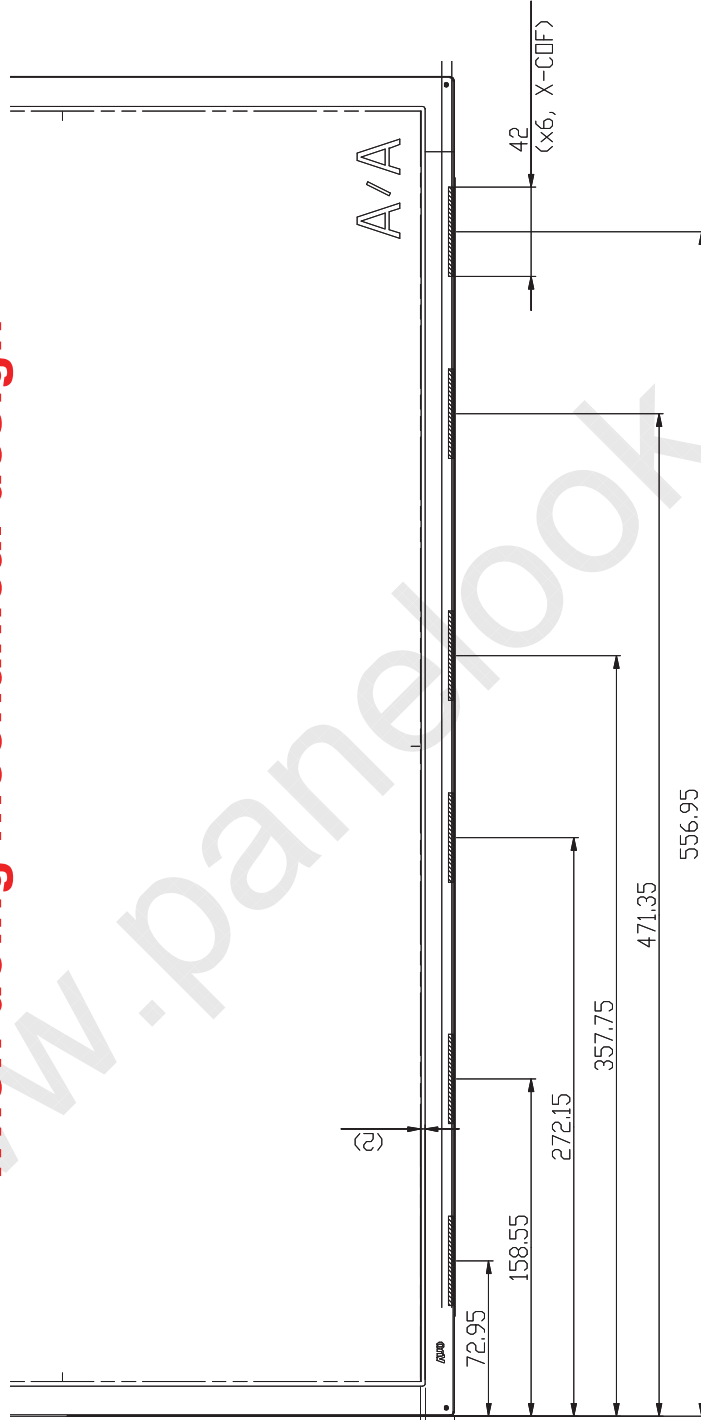
M270HVN02.1

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Back Face:

NOTES:
1. PRELIMINARY DRAWING FOR REFERENCE ONLY.
2. THIS DIMENSION EXCLUDES DEFORMATION.
3. BACKLIGHT: LED LIGHT-BAR
4. MODULE THICKNESS TO BE 10.5 MAX.
5. I/F CONNECTOR TO BE ????? OR COMPATIBLE.
6. TOLERANCE WITHOUT SPECIFIED TO BE 0.5 MM.
7. TORQUE OF M3 USER HOLE SHOULD BE WITHIN 3 KGF-CM AND RE-SCREW 10 TIMES.
8. USER HOLE SCREW PENETRATION 4.5mm MAX.

AU Optronics

Assy_Module

97.27MN6a.10B10A

Product Specification

M270HVN02.1

AU OPTRONICS CORPORATION

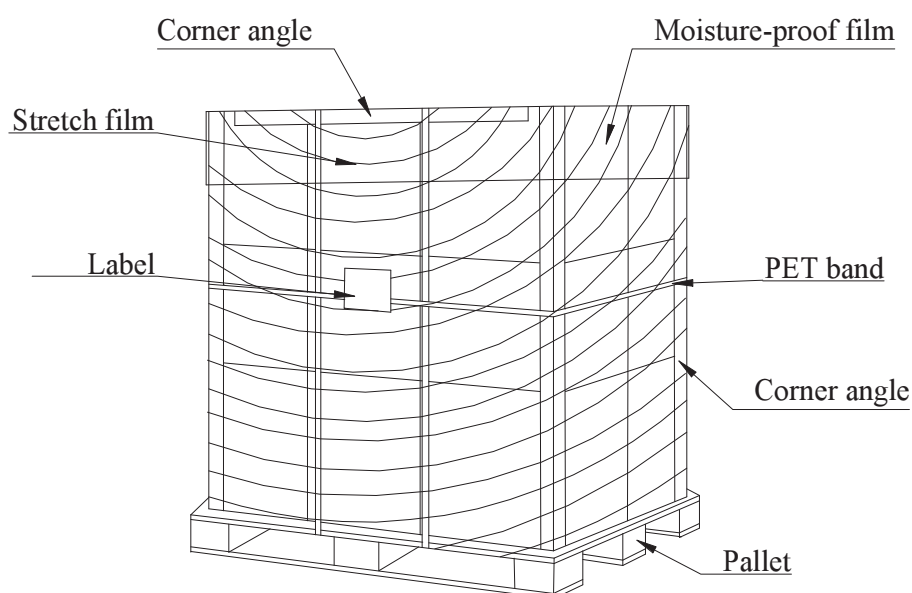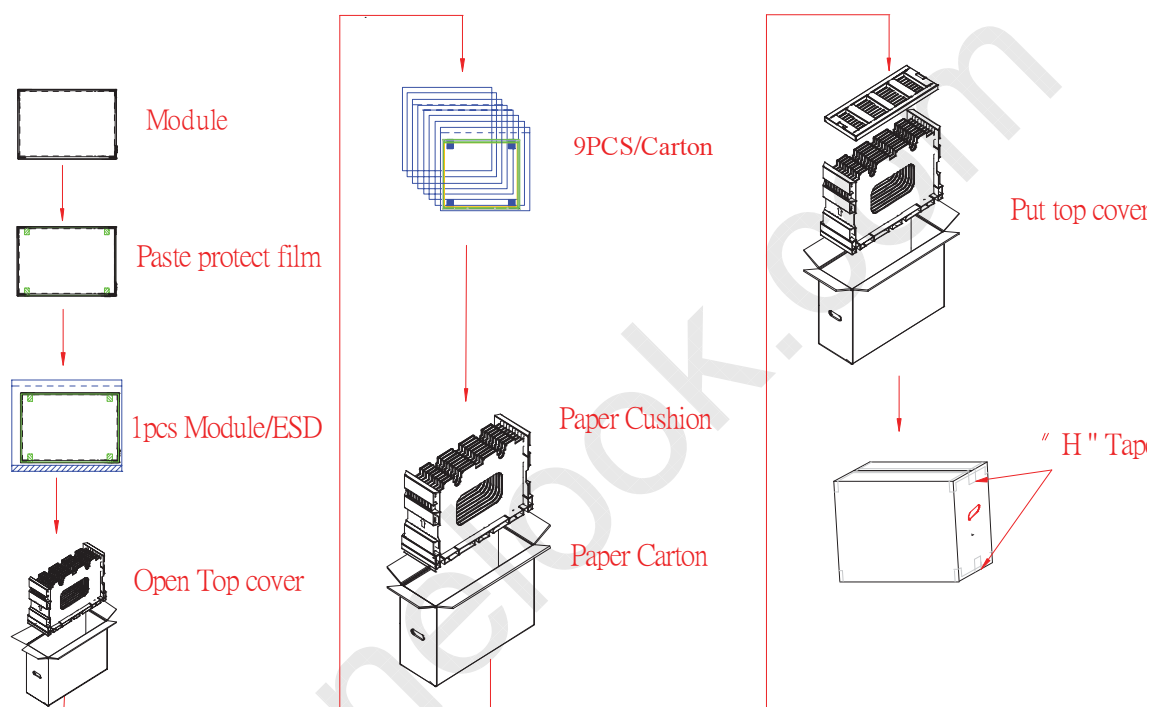**Avoid touching COF position when doing mechanical design**

A/A

42
(×6, X-COF)

556.95

471.35

357.75

272.15

158.55

72.95

(2)

Product Specification

M270HVN02.1

AU OPTRONICS CORPORATION

11 Packing Specification

11.1 Packing Flow

Module

Paste protect film

1pcs Module/ESD

Open Top cover

9PCS/Carton

Paper Cushion

Paper Carton

Put top cover

"H" Tape

Corner angle

Moisture-proof film

Stretch film

Label

PET band

Corner angle

Pallet

Product Specification

M270HVN02.1

AU OPTRONICS CORPORATION

11-2 Pallet and shipment information

	Item	Specification			Remark
		Q'ty	Dimension	Weight(kg)	
1	Panel	1	630.6mmx368.2mmx10.0mm	TBD	
2	Cushion	1	-	TBD	
3	Box	1	720(L)mm x 264(W)mm x 460(H)mm	TBD	without Panel & cushion
4	Packing Box	9 pcs/Box	720(L)mm x 264(W)mm x 460(H)mm	TBD	with panel & cushion
5	Pallet	1	1070(L)mm x 740(W)mm x 138(H)mm	TBD	
6	Pallet after Packing	8 boxes/pallet	1070(L)mm x 740(W)mm x 138(H)mm	TBD	